

Subodh Singh

Subodhhoonew@gmail.com | +91-9759200217

EDUCATION

IIIT VADODARA

B.TECH IN COMPUTER SCIENCE
2020-2024 | Gujarat, INDIA
CPI = 7.28

KV MUZAFFARNAGAR

HIGHER SECONDARY(12TH)
2018 | Uttar Pradesh, INDIA
PERCENTAGE = 84.2 %

HIMALAYA PUBLIC SCHOOL

SECONDARY(10TH)
2016 | Uttar Pradesh, INDIA
10 CGPA

COURSEWORK

Data structures and Algorithms
Database management System
Object-Oriented Programming
Operating Systems
Computer Networks
Data Visualization
Machine Learning
Artificial Intelligence

SKILLS

Languages:

C++ • JAVA • JavaScript • Python • SQL

Dev Tools:

GIT • MySQL Workbench • Visual Studio

• Android Studio • MongoDB Compass

Frameworks:

React JS • Node JS • Express JS •

Bootstrap • HTML • CSS • Langchain

• Spring Boot

• .Net Cloud/Databases:

MongoDB • MYSQL • Vector Databases

Data Science:

Power BI • Machine Learning • AI •

Neural Networks • Large Language

Model(LLM)

Soft Skills:

Leadership • Management •

Collaboration • Communication

DevOps:

Dockers

ENGAGEMENTS

Mentor: Of Association of Cultural Club -
Student Chapter, IIIT Vadodara

Founding Member : Created Table
Tennis Club for students of IIIT Vadodara

Sports-Engagements: Table-Tennis,
Chess, Cricket.

ACHIEVEMENTS

2020 National Merit Scholarship holder
2022 Engima **Finalist** (IITK) over 700 teams.
2022 ML/AI/IoT **trained** CodeUnnati (SAP)
2023 600+ coding Problems.

EXPERIENCE

IMPACTQA | SOFTWARE ENGINEER (DRDO)

June 2024– present | Noida, Uttar Pradesh

- Developed web application with Senior Devs for a **DRDO**, which enables users to interact with System.
- Developed Python **Desktop Applications**. And Integrate multi-individual systems.
- Learned and applied advanced concepts in Pseudorandom Number Generators
- Developed **AI/ML Model** to test either random binary data is random or contain some pattern.
- Developed **.Net Framework** along with senior Developers to process Realtime Data Stream.
- Performed **Dev-level** testing and efficiently resolved high-priority as well as low-priority Bugs, enhancing system stability.
- Delivered multiple technical **presentations** and product **demos** to **DRDO**, effectively communicating project milestones and securing buy-in for continued development.
- Tech Stack:** Python, ReactJS, NodeJS, REST, MongoDB, MYSql, .Net, RabbitMQ, XGBoost.

ATI MOTORS | DATA ENGINEER INTERN

Jan 2024 -- June 2024 | Bangalore, Karnataka

- Developed **Robo Observatory Platform** which enables users to monitor Robos/sherpas/Tugs in RealTime.
- Optimized** the existing database and SQL runtime by rewriting and implementing database indexing, resulting in a **20% increase** in efficiency.
- Perform **R&D**, and built analytics section of the Robo Observatory Platform, improving data processing by **30%**
- Developed a **multimodal Retriever-Augmented (RAG)** service using **Large Language Models (LLM)** for support teams and clients. This system could handle multiple document types, including images, text, and tables. Developed a pipeline and backend integration with a user interface in TypeScript, with login authentication for multiple roles, resulting in a **15% improvement** in user experience.
- Tech Stack:** Python, LLMs, Langchain, Grafana, SQL, Postgres, React, TypeScript, REST, Flask

EDULYT INDIA | DATA ANALYST INTERN

May 2023 --July 2023 | Delhi

- Helps with the Design and Development of **ML Models**, Participates in the design review and Scrum Meetings.
- Developed and executed Python scripts utilizing **data scraping** libraries to extract and process large-scale datasets; automated data acquisition, **saving 20+ hours per week**.

PROJECTS

AI-ASSISTANT (JARVIS) CURRENT

Python, RestAPI, NMF

- Inbuild wakeword implemented along with idle state.
- Capable to perform task such as take notes, search files, search web.
- Integrated Realtime API to fetch News/Weather/Gov-Alerts/AQI/astronomy.
- Will run as Windows service and can connect with other devices to create its own environment, should be capable to recognise user's command in chaos.

TRISHA

Python, ML, Web development, Langchain, LLM, RAG, Langchain, Streamlit

- Implemented a RAG using **Google Gemini Large Language Model (LLM)** capable to process Text, Images and Tables to process reasonable/logical responses
- Developed an **AI-ChatBot** with a visually appealing GUI, leveraging the OpenAI API and Streamlit Library; created an immersive user experience.